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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/026,972	12/27/2001	Ching-Chiang Liu	LIUC3018/EM	1791

23364 7590 07/13/2004
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EXAMINER


NGUYEN, MIKE

ART UNIT PAPER NUMBER

2182

DATE MAILED: 07/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/026,972	Applicant(s) LIU ET AL.	
	Examiner Mike Nguyen	Art Unit 2182	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 December 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Notices & Remarks

1. Claims 1-7 are pending for the examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Bodenmann et al. (U.S. Pat. No. 5,881,366).

As to claim 1, Bodenmann teaches a wireless receiving method implementing in a wireless receiving apparatus having a single MCU (microprocessor control unit) (see fig. 1), after the single MCU sequentially received signals having different frequencies transmitted from a plurality of peripheral devices in a mode of multi-segment multi-task data processing and finished a process for identifying the received signals (see col. 3 lines 60-67 and col. 5 lines 53-58), the single MCU proceeds the process comprising the steps of:

(a) reading a predetermined processing procedure with respect to a first signal from a memory (see claim 1 lines 13-44);

(b) performing a predetermined process with respect to the first signal based on the predetermined processing procedure (see claim 1 lines 13-44);

(c) storing index of the last finished step in the memory, after at least one step of the predetermined processing procedure has been performed with respect to the first signal (see claim 1 lines 13-44);

(d) reading the predetermined processing procedure with respect to a second signal from the memory (see claim 1 lines 45-57);

(e) performing the predetermined process with respect to the second signal based on the predetermined processing procedure (see claim 1 lines 45-57);

(f) storing index of the last finished step in the memory, after at least one step of the predetermined processing procedure has been performed with respect to the second signal (see claim 1 lines 45-57);

(g) determining whether all of the predetermined processes have been performed about the signals based on the predetermined processing procedure with respect to the signals (see col. 6 line 16 to col. 7 line 18); and

(h) sending all of the processed signals to a computer for processing based on data contained in the signals, if a result of the determination in step (g) is positive, otherwise looping back to step (a) (see col. 6 line 16 to col. 7 line 18).

As to claim 2, Bodenmann teaches the method of claim 1, further comprising the steps of:

(i) reading a signal conversion table stored in the memory, after the signal has been received (see fig. 3);

(j) determining whether a type of the receive signal has a corresponding type of a signal recorded in the conversion table (see col. 6 line 44 to col. 7 line 18);

(k) determining whether a length of the received signal is correct based on data of a corresponding signal recorded in the conversion table, if a result of the determination in step (j) is positive (see col. 8 lines 4-28); and

(i) decoding the signal based on a corresponding decoding procedure recorded in the conversion table, if a result of the determination in step (k) is positive, and sequentially reading components of the decode signal, and sending all of the processed signals to the computer so that a CPU (central processing unit) of the computer is capable of processing based on data contained in the signal (see claim 6).

As to claims 3 and 4, the method of claim 2, further comprising the step of if the result of the determination in step (k) is negative discarding the signal so as to continue to receive signal (see col. 10 line 58 to col. 11 line 30).

As to claim 5, Bodenmann teaches the method of claim 2, wherein the processing based on data contained in the signal comprises a first processing with respect to a wireless peripheral device corresponding to the signal (see col. 6 lines 44-57).

As to claim 6, Bodenmann teaches the method of claim 2, wherein the processing based on data contained in the signal comprises a second processing with respect to an instruction or data corresponding to the signal (see col. 6 lines 44-57).

Claim 7 is directed to a wireless receiving apparatus implementing the wireless receiving method as set forth in claim 1. Since Bodenmann teaches the wireless receiving method as set forth in claim 1; therefore, he also teaches the wireless receiving apparatus as set forth in claim 7.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Pat. No. 6,725,016 B1 (Jeong et al.)

U.S. Pat. No. 6,597,292 B1 (Shiguo)

U.S. Pat. No. 6,195,712 B1 (Pawlowski et al.)

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Nguyen whose telephone number is 703 305-5040. The examiner can normally be reached on 8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on 703 308-3301. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


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Art Unit: 2182

Mike Nguyen
Patent Examiner
Group Art Unit 2182

07/07/2004



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